

CLAIM AMENDMENTS

Claim 1 (previously amended):

A woodworking machine comprising:
a support;
a movable blade coupled to the support;
a control system configured to detect a dangerous condition between a person and the blade by imparting an electric signal to the blade and monitoring the electric signal for at least one change indicative of the dangerous condition;
and
a brake mechanism triggerable by the control system to stop movement of the blade upon detection of the dangerous condition by the control system;
where the control system is further configured to determine if the blade is moving, and configured not to trigger the brake mechanism if the blade is not moving.

Claim 2 (withdrawn):

The woodworking machine of claim 1, where the blade is coupled to the support by a rotatable arbor, and where the control system is configured to determine if the blade is moving by detecting whether the arbor is rotating.

Claim 3 (withdrawn):

The woodworking machine of claim 1, where the control system includes a magnetic sensor adapted to determine if the blade is moving.

Claim 4 (withdrawn):

The woodworking machine of claim 3, where the magnetic sensor includes a Hall effect sensor.

Claim 5 (withdrawn):

The woodworking machine of claim 1, where the control system includes an electronic sensor adapted to determine if the blade is moving.

Claim 6 (withdrawn):

The woodworking machine of claim 5, where the electronic sensor includes a capacitive sensor.

Claim 7 (withdrawn):

The woodworking machine of claim 1, where the control system includes an optical sensor adapted to determine if the blade is moving.

Claim 8 (previously amended):

A woodworking machine comprising:

a working portion adapted to work when moving;

a detection system adapted to detect a dangerous condition between a person and the working portion by imparting an electric signal to the working portion and monitoring the electric signal for at least one change indicative of the dangerous condition;

a reaction system associated with the detection system to cause a predetermined action to take place relative to the working portion upon detection of the dangerous condition; and

a motion detection system adapted to detect motion of the working portion and to disable the reaction system when the working portion is not moving.

Claim 9 (original):

The woodworking machine of claim 8, where the working portion is a spinning blade and where the motion detection system detects whether the blade is spinning.

Claim 10 (original):

The woodworking machine of claim 8, where the motion detection system detects the speed of the motion and considers the working portion to be not moving if the working portion is moving below a threshold speed.

Claim 11 (original):

The woodworking machine of claim 8, where the motion detection system includes a sensor.

Claim 12 (withdrawn):

The woodworking machine of claim 11, where the sensor is a Hall effect sensor.

Claim 13 (withdrawn):

The woodworking machine of claim 11, where the sensor is an electromagnetic field sensor.

Claim 14 (withdrawn):

The woodworking machine of claim 11, where the sensor is an optical sensor.

Claim 15 (withdrawn):

The woodworking machine of claim 11, where the sensor is an electrical sensor.

Claim 16 (original):

The woodworking machine of claim 8, where the working portion is a cutter, where the reaction system is a brake system, and where the predetermined action is to engage and stop the cutter.

Claim 17 (currently amended):

A woodworking machine comprising:

a working portion adapted to work when moving;

a motor to move the working portion;

a detection system adapted to detect a dangerous condition between a person and the working portion by imparting an electric signal to the working portion and monitoring the electric signal for at least one change indicative of the dangerous condition during a defined period of time after the motor has been turned off; and

a reaction system associated with the detection system to cause a predetermined action to take place relative to the working portion upon detection of the dangerous condition ~~during a defined period of time after the motor has been turned off~~.

Claim 18 (cancelled without prejudice).

Claim 19 (previously amended):

A woodworking machine comprising:

a cutting tool;

a motor to spin the cutting tool;

a detection system adapted to detect a dangerous condition between a person and the cutting tool by imparting an electric signal to the cutting tool and monitoring the electric signal for at least one change indicative of the dangerous condition;

a brake system adapted to engage and stop the cutting tool when the detection system detects the dangerous condition between the person and the cutting tool; and

a control system adapted to monitor the detection system and control actuation of the brake system, where the control system is adapted to trigger the brake system if the dangerous condition is detected during coast-down of the cutting tool after the motor is turned off.

Claim 20 (currently amended):

A woodworking machine comprising:

a working portion adapted to work when moving;

~~means for detecting~~ a detection system configured to detect a dangerous condition between a person and the working portion by imparting an electric signal to the working portion and monitoring the electric signal for at least one change indicative of the dangerous condition;

~~means for causing~~ a reaction mechanism configured to perform a predetermined action ~~to take place~~ relative to the working portion upon detection of the dangerous condition; and

means for detecting motion of the working portion and for disabling the ~~means for causing a predetermined action to take place~~ reaction mechanism when the working portion is not moving.